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13281 U.S.P.T.O.

CUSTOMER NUMBER: 38327

ATTORNEY DOCKET NUMBER: HITA.0483

THE COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith for filing is the Utility patent application of:

| | |
|-----------|--|
| INVENTOR: | MASATAKA SHIRAI AND TOSHIKI SUGAWARA |
| FOR: | CHEMICAL SUBSTANCE MEASURING APPARATUS USING OPTICAL WAVEGUIDES |

Enclosed are:

- 12 sheets of formal informal drawings.
- Transmittal of Japanese application 2003-148870 to claim priority date of May 27, 2003.
- An Executed Declaration.
- An Information Disclosure Statement
- An assignment executed by inventors to Hitachi, Ltd.
- The filing fee is calculated as shown below:

| FOR | NUMBER FILED | NUMBER EXTRA | RATE | CALCULATIONS |
|--|--------------|----------------|----------|--------------|
| TOTAL CLAIMS | 20 | -20 | x\$18 = | 0.00 |
| INDEPENDENT CLAIMS | 3 | -3 | x\$86 = | 0.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | +\$290 = | |
| | | BASIC FEE | | \$770.00 |
| | | TOTAL OF ABOVE | | 770.00 |
| REDUCTION BY ½ FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED | | | | |
| | | | TOTAL | 770.00 |

- A check in the amount of **\$810.00** to cover the filing fee and assignment fee is enclosed.
- The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

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